

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

COPY

Applicant(s): Susan J. Glenn et al.

Group No. 3661

Serial No.: 09/873,639

Examiner: Marc McDieunel

Filed: June 4, 2001

For: ULTRA-WIDEBAND ENHANCED ROBOT AND METHOD FOR CONTROLLING THE ROBOT

M/S RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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on September 22, 2003

Signature

W. J. Tucker

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Herewith are Form PTO-1449 and one copy of each document listed thereon. Attention is also directed to any item(s) designated below:

1. A check is enclosed to cover the fee set forth in 37 CFR 1.17(p). Any additional fee required by this paper may be charged to Deposit Account No. 50-1481.

2. The undersigned certifies that each enclosed document was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Information Disclosure Statement.

3. The relevance of any enclosed non-English language document(s) is concisely explained as follows.

Respectfully submitted,

W. J. Tucker

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List of Patents and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Patent Department of Commerce
Patent and Trademark Office

Docket No.: WJT001-0023

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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
m. m	A-1	US 5,285,209	Feb. 8, 1994	Sharpin et al.	342	424
m. m	A-2	US 6,300,914 B1	Oct. 9, 2001	Yang	343	741
	A-3					
	A-4					
	A-5					
	A-6					

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Transl.
	B-1				Yes
	B-2				

Date Examined:

12-5-03

Examiner:

W J Diemel Marc

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Filing Date: June 4, 2001

Group: 3661

OTHER DOCUMENTS

Examiner Initials		Author, Title, Date, Pertinent Pages, Etc.
m.m.	C-1	R.J. Fontana et al. "An Ultra Wideband Communication Link for Unmanned Vehicle Applications", Association for Unmanned Vehicle Systems International 1997 Conference (AUUSI97), Baltimore, June 3-6, 1997.
	C-2	Multispectral Solutions Press Release "Multispectral Solutions Develops First Ultra Wideband Radio to Exploit Ground Wave Propagation for Non Line-Of-Sight Applications, December 2, 1997.
	C-3	A. Valejo et al. "Short-Range DGPS for Mobile Robots with Wireless Ethernet Links", 1998 5th International Workshop on Advance Motion Control, pp. 334-339, 1998.
	C-4	"Intelligent Taskable System Colonies for Small Unit Operations", USA Robotics Research Laboratory Report to DARPA, May 10-13, 1999.
	C-5	G.S. Sukhatme et al. "Heterogeneous Robot Group Control and Applications", Proceedings of the AUUS 99 Conference, 1999.
	C-6	G.S. Sukhatme et al. "Design and Implementation of a Mechanically Heterogeneous Robot Group", Proceedings of SPIE: Sens Fusion and Decentralized Control in Robotic Systems II, Vol. 3839, pp. 122-133, Sept. 1999.
	C-7	C.H. Spenny et al. "Closely Supervised Control of a Target-Steered UAV", Proceedings of SPIE, Telemanipulator and Telepresence Technologies VI, v 3840, pp. 179-190, 1999.
	C-8	R.J. Fontana "Recent Applications of Ultra Wideband Radar and Communications Systems, in Ultra-Wideband Short-Pulse Electromagnetics" Kluwer Academic/Plenum Publishers, 2000.
	C-9	Time Domain Corporation Press Release, "Time Domain Demonstrates Revolutionary Ultra Wideband (UWB) Technology at Roving Sands 2000", June 20, 2000.
	C-10	R.T. Vaughan et al. "Fly Spy: Lightweight Localization and Target Tracking for Cooperating Air and Ground Robots", Proc. Int. Symp. Distributed Autonomous Robot Systems, 2000.
	C-11	G.S. Sukhatme et al. "Experiments with Cooperative Aerial-Ground Robots", in Robot Teams: From Diversity to Polymorphism, Eds. T. Balch and L.E. Parker, AK Peters, 2001 (possible prior art since not known exactly when published in 2001).

Date Examined:

12-5-03

Examiner:

Y. J. Dieunel Marc

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List of Patents and Publications
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U.S. Patent Department of Commerce
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Docket No.: WJT001-0023

Serial No.: Not Assigned

3661
09/07/3639
U.S. PTO

Applicant: Susan J. Glenn et al.

Filing Date: June 4, 2001

Group: Not Assigned
3661

U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
m. m	A-1	4,641,317	2/3/87	Fullerton	375	1
	A-2	5,764,696	6/9/98	Barnes et al.	375	239
	A-3	4,813,057	3/14/89	Fullerton	375	37
	A-4	4,979,186	12/18/90	Fullerton	375	1
	A-5	5,363,108	11/8/94	Fullerton	342	27
	A-6	5,677,927	10/14/97	Fullerton et al.	375	200
	A-7	5,687,169	11/11/97	Fullerton	370	324
	A-8	5,832,035	11/3/98	Fullerton	375	210
	A-9	6,111,536	8/29/00	Richards et al.	342	125
	A-10	6,133,876	10/17/00	Fullerton et al.	342	375

OTHER DOCUMENTS

Examiner Initials		Author, Title, Date, Pertinent Pages, Etc.
m. m	C-1	Business Editors & High Tech Writers "Automated Identification Technologies Long Range Wireless ID Tags Add Powerful New Capabilities to Cybermotion's Automated Patrol Systems", Business Wire dated 12/14/00, 3 pages.
m. m	C-2	"Cybermotion CyberGuard Robotic Security System...", downloaded 12/15/00 from http://www.cybermotion.com , 18 pages.

Date Examined:

Examiner:

9/15/02

Michael J. Mac



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List of Patents and Publications
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U.S. Patent Department of Commerce
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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
m. m	A-1	6,177,903	1/23/01	Fullerton et al.	342	28
	A-2	6,218,979	4/17/01	Barnes et al.	342	28
	A-3	6,300,903	10/9/01	Richards et al.	342	450
	A-4	6,304,623	10/16/01	Richards et al.	375	355
	A-5	6,421,389	7/16/02	Jett et al.	375	256
	A-6	Serial No. 09/592,249	Filed 6/12/00	I		
	A-7	Serial No. 09/592,250	Filed 6/12/00			
	A-8	Serial No. 09/592,290	Filed 6/12/00			
	A-9	Serial No. 09/591,691	Filed 6/12/00			
	A-10	Serial No. 09/592,289	Filed 6/12/00			
	A-11	Serial No. 09/592,248	Filed 6/12/00			
	A-12	Serial No. 09/592,288	Filed 6/12/00			

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M. Deunel



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U.S. PATENT DOCUMENTS (Continued)

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>m. m.</i>	A-13	Serial No. 09/591,690	Filed 6/12/00			
	A-14	Serial No. 09/875,290	Filed 6/7/01			
	A-15	Serial No. 09/537,692	Filed 3/29/00			
	A-16	Serial No. 09/538,519	Filed 3/29/00			
	A-17	Serial No. 09/332,501	Filed 6/14/99			
	A-18	Serial No. 09/587,033	Filed 6/2/99			
	A-19	Serial No. 09/586,163	Filed 6/2/99			
	A-20	Serial No. 09/537,264	Filed 3/29/00			
	A-21	Serial No. 09/538,292	Filed 3/29/00			
	A-22					
	A-23					
	A-24					
	A-25					

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W. D. Diemel, Jr.